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Jim Bergmann reviews combustion analysis, the BluFlame analyzer and measureQuick Advanced Combustion Analysis (HVAC) w/ Jim Bergmann

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Wobbe Index: The Wobbe Index (WI) is the main indicator of the interchangeability of fuel gases and is frequently defined in the specifications of gas supply and transport utilities. Wobbe Index is used to compare the combustion energy output with different composition of fuel gases. If two fuels have identical Wobbe Indices then

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The Wobbe Index or Wobbe number is an indicator of the interchangeability of fuel gases such as natural gas, liquefied petroleum gas, and town gas and is frequently defined in the specifications of gas supply and transport utilities. If V_C is the higher heating value, or higher calorific value, and G_S is the specific gravity, the Wobbe Index, I_W , is defined as:
$$I_W = \frac{V_C}{\sqrt{G_S}}$$

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Wobbe index - Wikipedia

The Wobbe Index indicates the interchange ability of a fuel gas and is the best indicator of similarity between natural gas and a specific propane-air mixture. Since the Wobbe index relates heating characteristics of blended fuel gases it can be used to obtain constant heat flows from gases of varying compositions.

Fuel Gases and Wobbe Index - Engineering ToolBox

The Wobbe index is the ratio of the specific energy of a gas to its relative flow rate as shown by its constituent components: $\frac{HHV}{RD}$. HHV - The Higher Heating Value, which is a measure of the energy per volume for the gas being considered. RD .

Wobbe Index | Neutrium

The Wobbe index is a measurement of the degree to which fuels such as natural gas and propane can be interchanged. It is an important measure for appliances that use these fuels, as a gas line to one's house can carry gas supplied from a variety of different sources and suppliers.

What is the Wobbe Index? (with picture) - wiseGEEK

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general information wobbe index and Wobbe Index: The Wobbe Index (WI) is the main indicator of the interchangeability of fuel gases and is frequently defined in the specifications of gas supply and transport utilities. Wobbe Index is used to compare the combustion energy output with different composition of fuel gases.

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Wobbe index (WI) of a gas (normally natural gas) is the indication of the heating value of the gas from the pipeline at the orifice where a burner is located, this could be a gas turbine or a...

SIGNIFICANCE OF WOBBE INDEX IN GAS TURBINE OPERATION AND ...

General Information Wobbe Index and Calorimeters Introduction Hobre Instruments is a leading company in online analysing techniques Besides manufacturing analysers, Hobre Instruments is a worldwide known and valued system integrator With our 30 years of experience as analyser

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Wobbe Index = $1000 / \sqrt{0.6} = 1291$ A gas with a specific gravity of 0.6 and a BTU/cubic foot of 1050 is well within the typical range mentioned in the AGA bulletin: Wobbe Index = $1050 / \sqrt{0.6} = 1356$ In fact, for pure Methane and the next two, heavier hydrocarbons, Ethane and

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Propane, properties are as follows: Wobbe BTU/Cubic Foot SG Index Methane 1012 0.55 1365

The Wobbe Index and Natural Gas Interchangeability

Wobbe index is an indicator of the interchangeability of fuel gases. The fuel gases include natural gas, liquefied petroleum gas (LPG) and town gas. On the other hand, this value measures the relative ability of fuel gases to deliver energy.

Difference Between Wobbe Index and Calorific Value ...

The corresponding range for the Wobbe index is usually between 40 MJ/m³ and 60 MJ/m³. ISO 15971:2008 neither endorses nor disputes the claims of any commercial manufacturer for the performance of an instrument.

ISO - ISO 15971:2008 - Natural gas □ Measurement of ...

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The Wobbe number, or Wobbe index, is a description of a fuel gas used in deciding whether that gas can be substituted for another in a particular burner, for example, can propane be used in a kitchen range made to burn natural gas? The Wobbe Index is sometimes called the Interchangability Factor.¹ Symbol, WN or WI.²

Wobbe number - Sizes

Abstract Specifies methods for the calculation of the superior calorific value and the inferior calorific value, density, relative density and Wobbe index of dry natural gas and other combustible gaseous fuels, when the composition of the gas by mole fraction is known. Replaces the first edition, which has been technically revised.

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ISO - ISO 6976:1995 - Natural gas □ Calculation of ...

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Provides a unique overview of energy management for the process industries Provides an overall approach to energy management and places the technical issues that drive energy efficiency in context Combines the perspectives of freewheeling consultants and corporate insiders In two sections, the book provides the organizational framework (Section 1) within which the technical aspects of energy management, described in Section 2, can be most effectively executed Includes success stories from three very different companies that have achieved excellence in their energy management efforts Covers energy management, including the role of the energy manager, designing and implementing energy management programs, energy benchmarking, reporting, and energy management systems Technical topics cover efficiency improvement opportunities in a wide range of utility systems and process equipment types, as well as techniques to improve process design and operation

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Liquefied natural gas (LNG) is a commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world. The LNG industry, using technologies proven over decades of development, continues to expand its markets, diversify its supply chains and increase its share of the global natural gas trade. The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources in more remote and harsher environments. It is the only book of its kind, covering the many aspects of the LNG supply chain from liquefaction to regasification by addressing the LNG industries' fundamentals and markets, as well as detailed engineering and design principles. A unique, well-documented, and forward-thinking work, this reference book provides an ideal platform for scientists, engineers, and other professionals involved in the LNG industry to gain a better understanding of the key basic and advanced topics relevant to LNG projects in operation and/or in planning and development.

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Highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations Provides guidelines in utilizing the full potential of LNG assets Offers advices on LNG plant design and operation based on proven practices and design experience Emphasizes technology selection and innovation with focus on a fit-for-purpose design Updates code and regulation, safety, and security requirements for LNG applications

This is the first of three volumes of essential reference for those concerned with the installation and servicing of domestic and industrial gas equipment. This volume explains the basic principles underlying the practical and theoretical aspects of installing and servicing gas appliances and associated equipment, from the basics of combustion, to burners, pressure and flow, transfer of heat, controls, as well as materials and processes, electrical aspects, and metering and measuring devices. The revised fourth edition is brought fully up to date with current Standards and legislation to reflect recent developments in industry, in line with requirements of the ACS Certificates of Competence and NVQs. The book includes a new section on medium to low pressure regulators for domestic properties. Covering both Natural Gas and Liquefied Petroleum Gas, the many illustrations and worked examples included throughout the text will help the reader to understand the principles under discussion. Volume 1 of the Gas Service Technology Series will enable the reader to put into practice the safe installation and servicing procedures described in the companion volumes: Domestic Gas Installation Practice (Volume 2), and Industrial and Commercial Gas Installation Practice (Volume 3). Combining a comprehensive reference with practical application in real-world

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engineering contexts, Volume 1 provides an essential handbook for all aspects of fundamental gas servicing technology, ideal for both students new to the field as well as professionals and none-operational professionals (e.g. Specifiers, Managers, Supervisors) as an ongoing source of reference.

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